

ECS/EMD Configuration Change Request

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1. Originator Henry Baez	2. Log Date: 1/22/04	3. CCR #: 04-0050	4. Rev: —	5. Tel: 301-925-1025	6. Rm #: 3108G	7. Org. COTS HW
8. CCR Title: Release Firewall Configuration Guidelines Engineering Technical Directive to DAAC and SMC.						
9. Originator Signature/Date Henry Baez /s/ 1/24/04			10. Class II	11. Type: CCR	12. Need Date: 1/29/2004	
13. CCR Sponsor Signature/Date Pamela Johnson /s/ 1/24/04			14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Routine	
16. Documentation/Drawings Impacted (Review and submit checklist):			17. Schedule Impact:		18. CI(s) Affected:	
19. Release Affected by this Change:		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other:						
23. Problem: (use additional Sheets if necessary) Firewall cannot run an ntp, timeserver, for security reasons. On near saturated links, low SOCKS idle time will terminate the connection requiring retransmission of the whole file. Large socket base PORTUS proxy flows have lower performance when buffer size is less than 256k. ECS routers provide anti-spoofing protection to firewall currently. Plan is to take out ECS router out of the network.						
24. Proposed Solution: (use additional sheets if necessary) This ETD covers several configurations changes to the firewall server. The use of the AIX client ntpdate utility will keep firewall time in sync with internal Synergy server. Increasing SOCKS idle time will save time by limiting retransmissions. This increase of idle time will somewhat improve performance. The increase of the buffer size in the PORTUS socket proxy, aproxy, to 256k will increase throughput. Firewall need to have anti-spoofing turned on.						
25. Alternate Solution: (use additional sheets if necessary) None.						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Problems parsing firewall log extracts on dps01 internal server. Drop connections, slow performance. Poor performance for large flows that use socket base connections. No protection against spoofing attacks.						
27. Justification for Emergency (If Block 15 is "Emergency"):						
28. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> PVC <input type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input checked="" type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. SCDV CCB Chair (Sign/Date): Byron V. Peters /s/ 1/29/04			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. EDF CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			